

What is claimed is:

1 1. A topical cosmetic composition, said composition
2 comprising:

3 (a) 0.5% to 40% of a hybrid silicone composite powder
4 having a spherical shape with particle diameter ranging from 2 to
5 10 μm ;

6 (b) 0.1% to 95% of a volatile cosmetic fluid;

7 (c) 0.5% to 90% of a silicone fluid with viscosity
8 ranging from 2 to 350 cSt;

9 (d) 0.1 to 80% of an oil base consisting of an oil,
10 wax, oil gelling agent or the mixture thereof;

11 (e) 0.05 to 15% of a surface active agent;

12 (f) 0.05 to 40% of a cosmetic pigment; and

13 (g) optionally, an aqueous gel containing glycerin,
14 glycol and an aqueous thickening agent.

1 2. The composition of claim 1, wherein the hybrid
2 silicone composite powder having a spherical shape with particle
3 diameter ranging from 2 to 10 μm comprises polydimethylsiloxane
4 (PMS) and polymethylsilsesquioxane (PMSQ) networks.

1 3. The composition of claim 2, wherein the PMS and
2 PMSQ networks form a composite structure of interpenetrating
3 polymer networks, which are held together by physical

4 entanglements on a molecular scale without chemical bonding
5 between them.

1 4. The composition of claim 3, wherein the PMS and
2 PMSQ networks are sequentially synthesized using two different
3 reaction mechanisms.

1 5. The composition of claim 4, wherein the PMS and
2 PMSQ networks have a weight ratio of PMS:PMSQ ranging from 1:1 to
3 50:1.

1 6. The composition of claim 4, wherein the PMS network
2 is prepared by curing a liquid rubber emulsion containing alkenyl
3 silicone, hydrogen silicone and optionally methylalkoxysilane
4 using a platinum catalyst.

1 7. The composition of claim 6, wherein the liquid
2 rubber emulsion is an o/w emulsion.

1 8. The composition of claim 6, wherein the alkenyl
2 silicone is an organopolysiloxane having two or more alkenyl
3 groups per molecule.

1 9. The composition of claim 6, wherein the hydrogen
2 silicone is an organohydrogen polysiloxane having two or more
3 Si-H groups per molecule.

1 10. The composition of claim 6, wherein
2 methylalkoxysilane is selected from methyltrimethoxysilane and
3 methyltriethoxysilane.

1 11. The composition of claim 4, wherein PMSQ network
2 is synthesized through hydrolyzing and condensing
3 methyltrialkoxysilane impregnated in PMS network with aqueous
4 solution of ammonia or amine as the catalyst.

1 12. The composition of claim 1, wherein the volatile
2 cosmetic fluid is selected, without special limitation, from the
3 group consisting of a cyclomethicone, a low viscosity
4 dimethicone fluid with viscosity ranging from 0.65 to 2 cSt, a
5 C₈-C₁₂ hydrocarbon fluid, a low molecular weight alkylmethicone
6 fluid and a mixture thereof.

1 13. The composition of claim 1, wherein the silicone
2 fluid is selected from organopolysiloxane fluid with viscosity
3 ranging from 2 to 350 cSt.

1 14. The composition of claim 13, wherein the
2 organopolysiloxane fluid is selected from the group consisting of
3 dimethicone, phenyltrimethicone, alkyldimethicone, silanol,
4 amino-containing silicone, fluoroalkyl silicone,
5 hydroxy-functional silicone, carboxy-functional silicone,

6 alkoxy-functional silicone, high molecular weight silicone gum
7 solution, silicone resin solution and silicone-grafted
8 polyacrylate solution.

1 15. The composition of claim 1, wherein the oil base
2 comprises: (a) an oil selected from the group consisting of
3 mineral oils, plant oils, animal oils, fatty acids, fatty acid
4 esters and fatty alcohols; (b) a cosmetic wax having a melting
5 point of 40°C or higher; and (c) an oil gelling agent selected
6 from the group consisting of mineral clays, metallic soaps,
7 montmorillonite, polyglyceryl fatty acid esters, hydrophobic
8 sucrose fatty esters, synthetic polymers, starch fatty acid ester
9 and mixtures thereof.

1 16. The composition of claim 1, wherein the surface
2 active agent is selected from the group consisting of nonionic,
3 anionic, cationic, amphoteric and oxyalkylene-modified
4 organopolysiloxanes.

1 17. The composition of claim 1, wherein the cosmetic
2 pigment is selected from the group consisting of talc, kaolin,
3 mica, pearl, magnesium carbonate, magnesium silicate, aluminum
4 magnesium silicate, silica, calcium carbonate, zinc oxide,
5 titanium dioxide, red iron oxide, yellow iron oxide, black iron
6 oxide, ultramarine blue, polyethylene powder, polystyrene powder,
7 silk powder, polymethacrylate powder, polytetrafluoroethylene

8 powder, nylon powder, polyurethane powder, crystalline cellulose,
9 titanated mica, bismuth oxychloride, interference pigments and
10 mixtures thereof.

1 18. The composition of claim 1, wherein the aqueous
2 gel comprises water, glycerin, glycol and a thickening agent.

1 19. The composition of claim 18, wherein the glycol is
2 selected from the group consisting of propylene glycol,
3 1,3-butylene glycol, hexylene glycol, dipropylene glycol,
4 polyethylene glycol, polypropylene glycol, hydroxypropyl
5 sorbitol, hexanetriol and ethoxylated glycerin.

1 20. The composition of claim 18, wherein the
2 thickening agent is selected from the group consisting of
3 water-soluble and water dispersible polymers including polymers
4 that may be crosslinked.

1 21. The composition of claim 1, wherein said
2 composition further comprises a preservative.

1 22. The composition of claim 21, wherein the
2 preservative is selected from the group consisting of
3 phenoxyethanol, methylparaben, ethylparaben, propylparaben,
4 butylparaben, isobutylparaben, imidazolidinyl urea,
5 p-hydroxybenzoic acid, benzyl alcohol, disodium EDTA, sodium

6 dehydroacetate, quaternary ammonium compounds, hydantoin
7 derivatives and mixtures thereof.

1 23. The composition of claim 1, wherein said
2 composition further comprises a cosmetically effective active
3 ingredient.

1 24. The composition of claim 23, wherein the
2 cosmetically effective active ingredient is selected from the
3 group consisting of sunscreen agents, tanning agents, vitamins,
4 glycolic acid, salicylic acid, polyphenol, antimicrobial,
5 botanical extracts, enzymes and lipids.

1 25. A hybrid silicone composite powder having a
2 spherical shape with a particle diameter ranging from 2 to 10
3 microns comprising polydimethylsiloxane (PMS) and
4 polymethylsilsesquioxane (PMSQ) networks.

1 26. The hybrid silicone composite powder defined in
2 claim 25 wherein the PMS and PMSQ networks form a composite
3 structure of interpenetrating polymer networks, which are held
4 together by physical entanglements on a molecular scale without
5 chemical bonding between them.